

LIEBHERR

CONSTRUCTION EQUIPMENT



056255-1007 - Swing Drive

Sample No: LH0292222

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

Sample Number	LH0292222	LH0235496	LH0133032	LHP0014664
Sample Date	26 Jun 2024	27 Jun 2022	24 Oct 2018	01 Dec 2011
Machine Hours	17524	0	14295	778
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	SEVERE	NORMAL

American Iron and Metal

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Oil Condition

Visc @ 40°C	cSt	102	139	137	179
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Contamination

Water	%	NEG	NEG	1.089	NEG
Silicon	ppm	<1	2	2	<1
Sodium	ppm	<1	<1	0	4
Potassium	ppm	<1	<1	<1	1



Wear Metals

Iron	ppm	311	326	532	131
Copper	ppm	61	198	135	35
Lead	ppm	2	7	4	2
Tin	ppm	3	24	1	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	2	5	<1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	2	3	4	2
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	17	25	5	32
Magnesium	ppm	4	4	1	<1
Zinc	ppm	22	72	28	24
Phosphorus	ppm	1175	1939	389	1978
Barium	ppm	<1	<1	0	15
Boron	ppm	49	9	9	19

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of water present in the oil. Free water present. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

Depot: AMEMON
Unique No: 5802837
Signed: Kevin Marson
Report Date: 03 Jul 2024



Graphs

